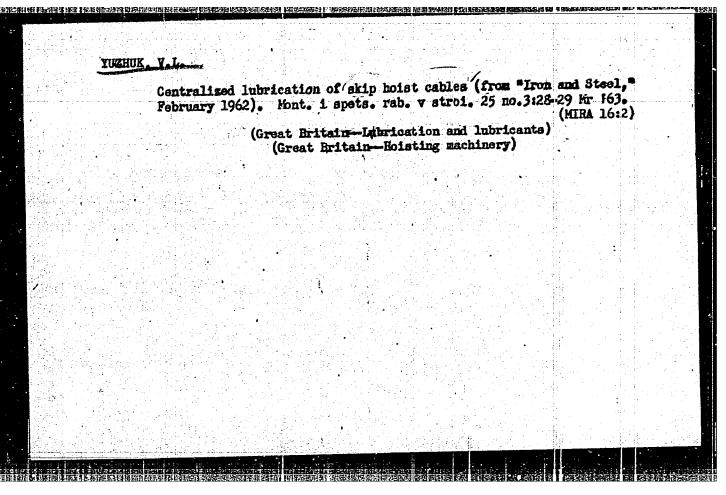
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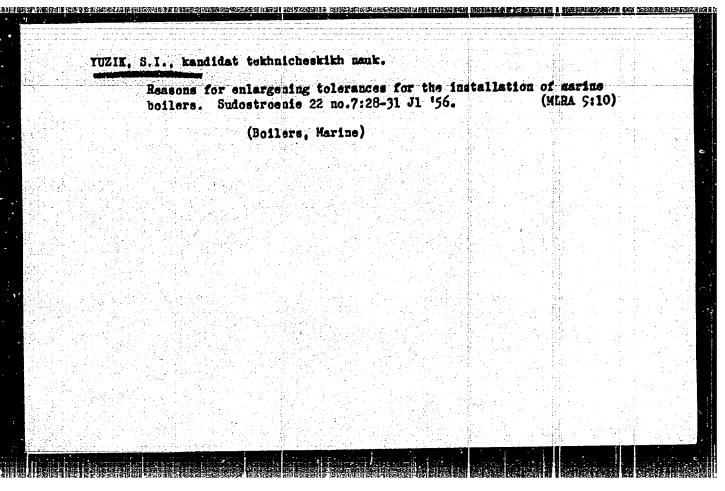
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	1. Proyektno-konstruktorskaya Mekhanomontashproyekt. (X raysIndustrial applications) (Gamma raysIndustrial applications) (MetalsDefects)			
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	1 spets. rab. v stroi. 23 no.5:30-31 My 61 (MIRA 30:31)
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	(England Tanke)
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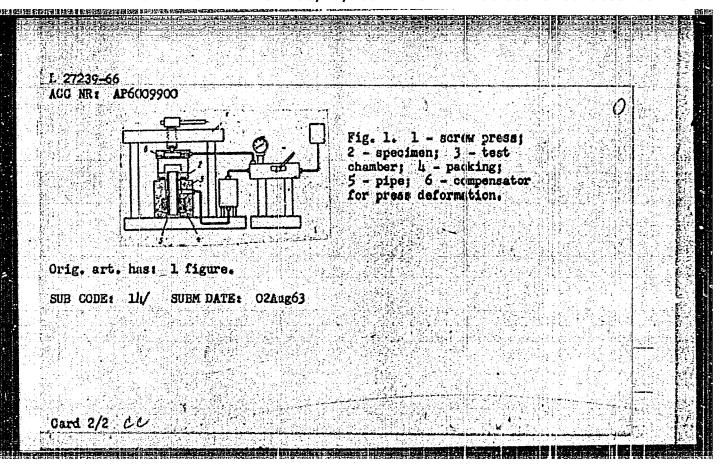


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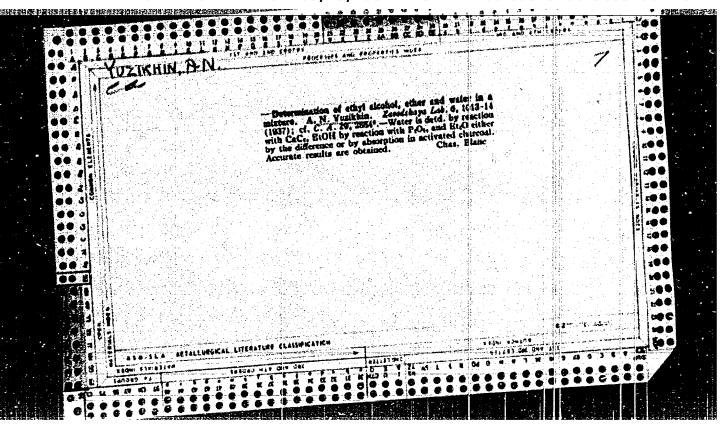
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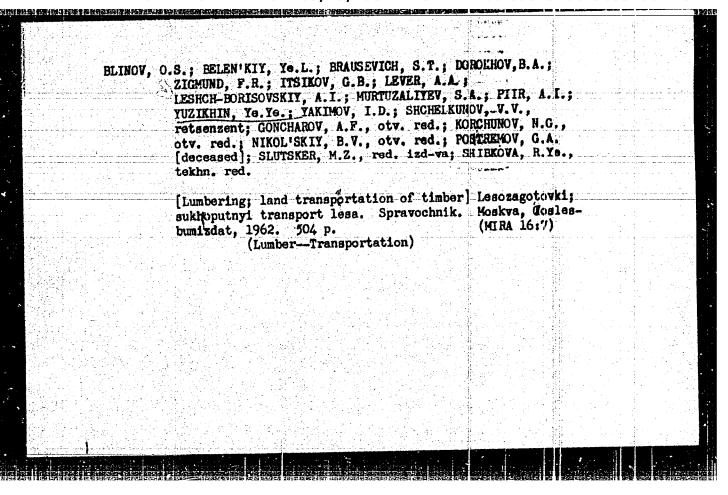
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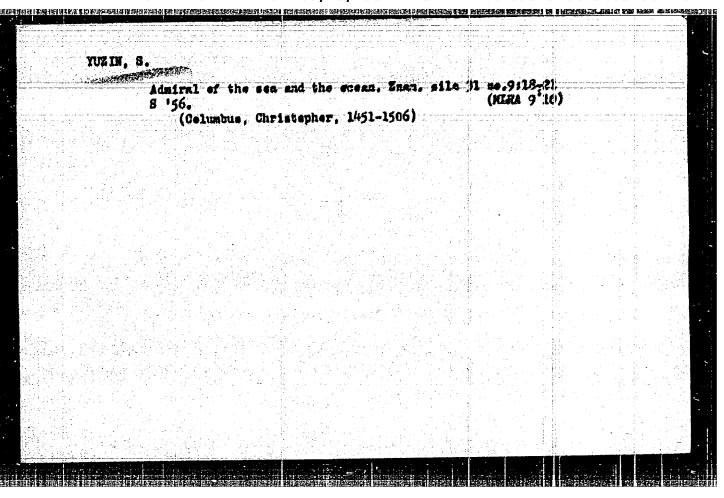


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SKIPHTROY, P.A.; SOKOLOVSKIY, T.Ta.; PERENKOY, A.P.; ROMANOY, E.V.;
FEDOROY, Y.P.; MARIHKO, I.L.; dotsent; AGAMEGOYAN, A.G.;
IUZIRA, V.Tu., rad.; IERMAKOY, M.S., tekhn.rad.

[Increasing labor productivity is the main factor in expanding agricultural production under the seven-year plan] Povyahenie proizvoditel'nosti truda - glavnoe uslovie rosta sel'ukckhosiaisi-vennogo proizvodstva v semiletka. Moskva, Izd-vo Mosk.univ., 1960.

134 p. (MIRA 14:1)

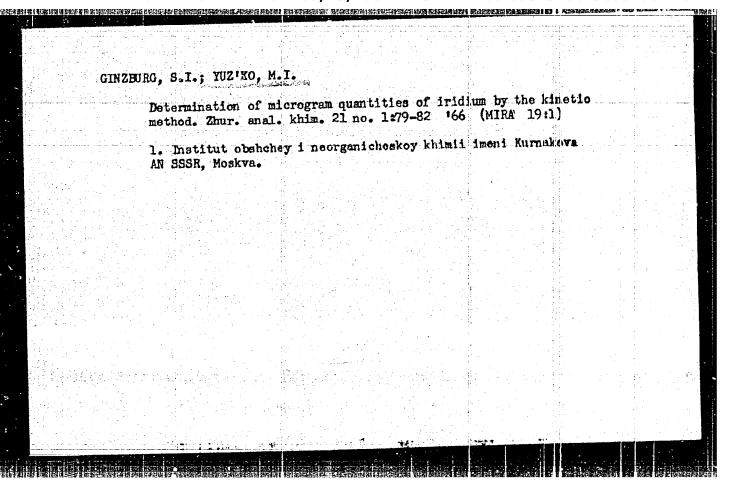
1. Moscow, Universitet.
(Agriculture-Labor productivity)

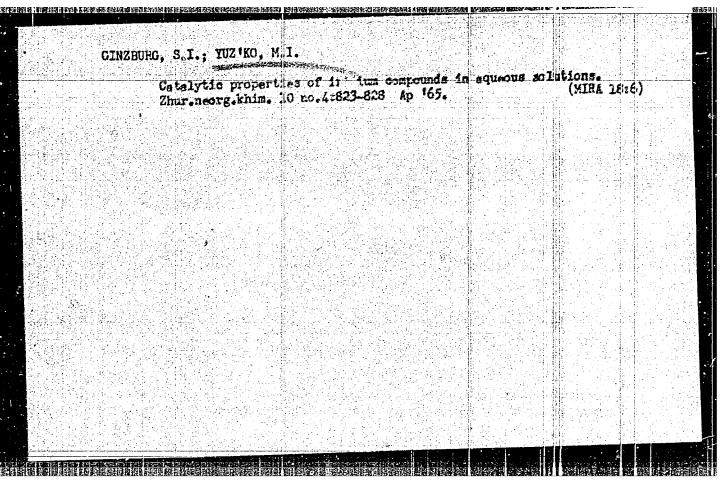
L 6536-66 ACC NR: AP5027168 SOURCE CODE: PO/0056/65/016/005/0727/0737 AUTHOR: Jozkiewicz, S. - Yuzkevich, S. (Professor, Doctor, Director); Fuchalik, Pukhalik, M. (Professor, Doctor, Director); Cygan, Z, - Tsygan, Z.; Drozez, M. -Drozhdzh, M.; Gregorczyk, J. - Gregorchik, Ya.; Grzestk, J. - Gzhestk, Ya.; Krzonka, K. - Kshoska, K.; Lowandowska-Tokarz, A. - Levandovska-Tokazh, A.; Stanonek, J. - Stanonek, J. - Zhak, T. - Zhak, T. ORG: Institute of Physiological Chemistry, Silesia AM, Zabrza-Rokitnica (Zaklad Chemit Fizjologicanej Sl. AM); Institute of Medical Physics, Silosia AM, Zabreze-Rokitnica (Zaklad Fizyki Lekarskiej Sl. AM) TITLE: Investigation of the effect of sonic and ultrasonic fields on blockemical processes. IX. Effect on some blood components in men working under noisy conditions SOURCE: Acta physiologica polonica, v. 16, no. 5, 1965, 727-737 TOPIC TAGS: human physiology, working condition, man, medical experiment, biologic vibration effect, sound, ultrasonic field, accustic biologic effect ABSTRACT: The levels of blood flucose, pyruvic acid, ascorbic acid, proteinfractions, nonprotein nitrogen, phospholipid phosphorus, and the activities of aminotransferase and aldolase were determined in 80 persons to study the effect of noisy working conditions on the workingman. The test subjects were employed in a large industrial establishment

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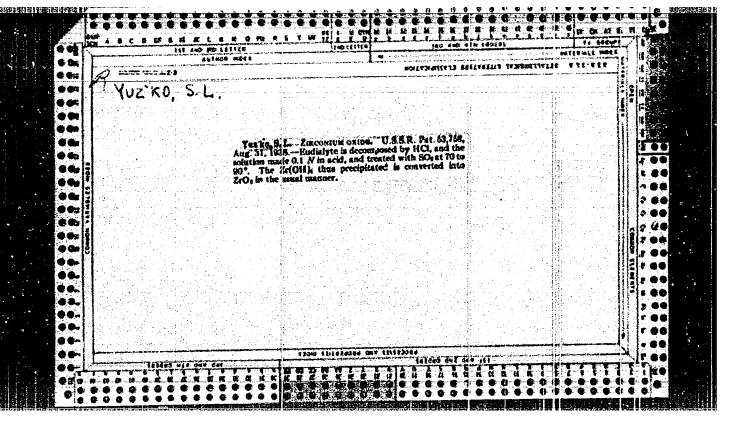
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YUZ'KO, S., kand. tekhn. nauk; ROZENKRANTS, I., kand. tekhn. nauk;
MAMONTOVA, O., kand. khim. nauk; PATLYAKEVICH, D., inzh.;
KISLITSIN, S.; KISLITSIN, Fe.; BUKHARSKIY, G.; RUZHKOV, F.,
izobretatel'; SOLOVSKIY, B., inzh.-mekhanik

Helping crops. NTO 6 no.6:9-12 Je '64. (MIRA 17:8)

1. Uchenyy sekretar' soveta Nauchno-tekhnicheskikh obehchestv
Ul'yanovskogo oblastnogo ob"yedineniya "Sel"khoztekhnika."

(for Bukharskiy).



YUZ'KO S 1 .. Doc Tech Sci (diss) -- "Obtaining sulfur and matte from pyrites by means of zonal reasting and fusion (Problems of the radical improvement of the production of sulfuric acid and certain pyrometallurgical processes)".

Sverdlovsk, 1959. 36 pp (Min Righer Educ USSR, Ural Polytech Inst im S. M. Kirov), 150 copies (KL, No 10, 1959, 125)

GINZBURG, S.I.; YUZ'KO, M.I.; CHALISOVA, N.N.

Use of cuprous chloride in the analysis of plat num metals.

Zhur. anal. khim. 18 no.2:222-228 F '63.

(MIRA 17:10)

1. Kurnakov Institute of General and Inorganic Chemistry,

Academy of Sciences, U.S.S.R., Moscow.

VILKOVA, N.A., aspirantka; KOZIENKO, V.N., fitopatolog (Brazhnoye, Krasnoyarskogo kraya); GULYARENKO, F.N.; RAZVYAZKINA, G.M.; KAPKOVA, Ye.A.; BELYANCHIKOVA, Yu.V.; DZHUMABAYEV, P., aspirant; RASSADINA, Ye.G., aspirant; NIKITINA, M.D., mladshiy naucinyy sotrudnik; LOGINOVA, K.M., kand.sel'skokhoz.mauk; YUZ'KO, B.L.; PETROVA, N.A.

Brief information. Zashch. rast. ot wred. i bol. 8 no.9:53-57 S 163. (MDRA 16:10)

1. Vsesoyuznyy institut zashchity rasteniy (for Vilkova, Rassadina).
2. Zaveduyushchiy Lisetskim sortouchastkom, selo Krekhovtny,
Ivanovo-Frankovskoy oblasti (for Gulyarenko).
3. Laboratoriya
mikologii Vsesoyuznogo instituta zashchity rasteniy (for Dimmabayev).
4. Chitinskaya sel'skokhozyaystvennaya opytnaya stantsiya (for
Nikitina).
5. Pushkinskaya baza Vsesoyuznogo instituta zashchity
rasteniy (for Loginova).
6. Ul'yanovskaya sel'skokhozyaystvennaya
opytnaya stantsiya, pochtovoye otdeleniye Isheyevka (for Petrova).

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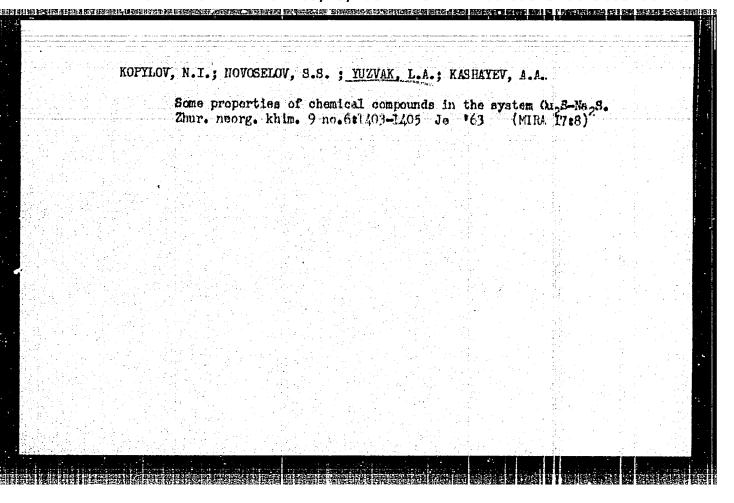
TYLKIN, M.A.; MEL'NICHENKO, G.P.; ZASPITSKIY, N.A.; KHUDENKO, M.A.;
YUZVA, A.B.

Investigating service temperature conditions and the heat resistance of rolls on transverse-spiral rolling mills.

Izv. vys. ucheb. zav.; chern. met. 7 no.11:124-130 '64.

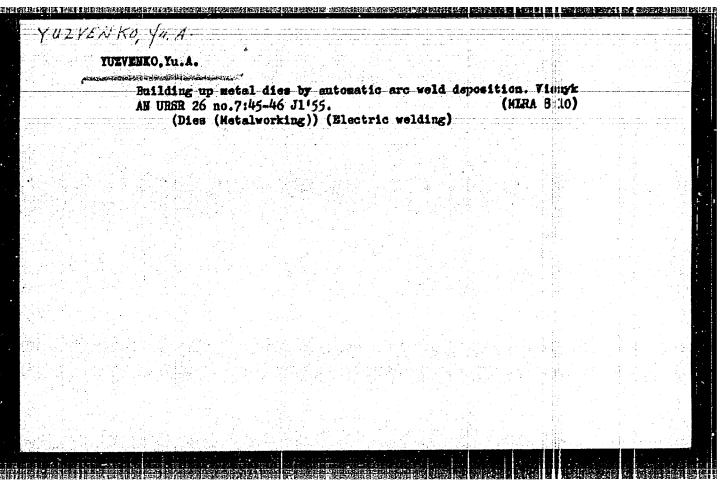
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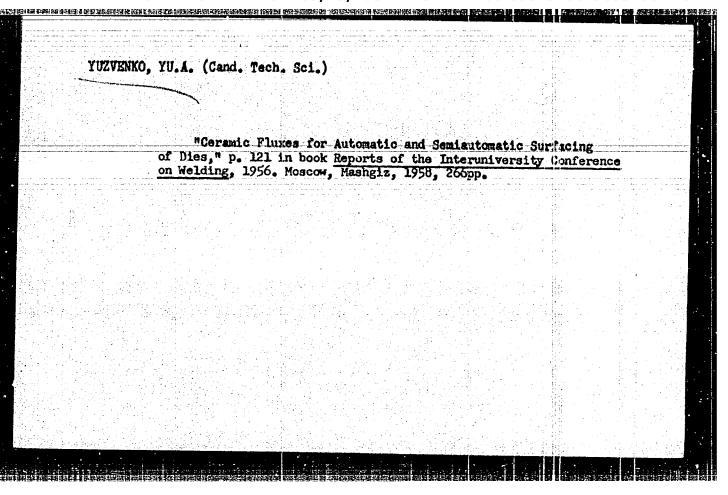
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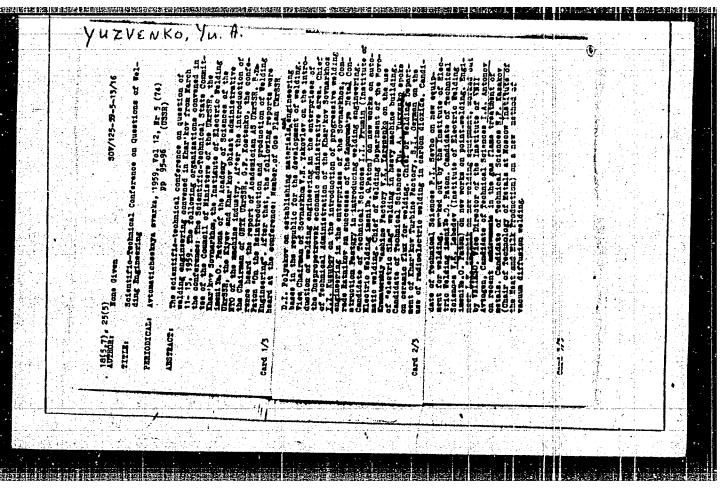
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YUZVI	/enko, Yu. A.	
	"Investigation of the Eutomatic Arc Welding Building of Dies." C.	and Tech Sci.
Kiev (KL,	Order of Lenin Polytechnic Inst. Min Higher Education USSR, Kiev No 15, Apr 55).	1955.
S0:	Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Disser	detions
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18(5),28(1) SOV/135-59-6-2/20 Khrenov, K. K., Member, Academy of Sciences (Ukraine), AUTHOR: Poznyak, L. A., Candidate of Technical Sciences, Yuzvenko, Yu. A., Candidate of Technical Sciences, Samo-tryasov, M. S., Candidate of Technical Sciences Features of Modification of Seam Welds by Tittenium in the Automatic Welding of Medium Steel Svarochnoye Proizvodstvo, 1959, Nr 6, pp 6-8 (USSR) PERIODICAL: In welding high carbon-content steels, hot cracks and ABSTRACT: tempering structures are formed around the welding zone. The difficulties are increased if me tal is heated before welding. It is shown in Ref 1 and 27 that in metal containing more than 0.16-0.20% C-hydrate heat-fissures are formed. Ref 4 and 57 represent the experiment of introducing fluxes of titanium and aluminum into the welding tub by electrodewires. In /Ref 5/ there is shown the experiment of removing the heat-fissures in cast steel with a high percentage of C-hydrate (0.50-2.0%) by introducing titanium by powdery-electrodes. The experiment was successful.

SOV/135-59-6-2/20

Features of Modification of Seam Welds by Titanium in the Automatic Welding of Medium Steel

表表,表现的一种企业企业,并不是一个企业,我们会对自己的对象,这个企业,但是一种企业的企业的企业,但是一种企业的企业,可以不会的企业,可以不会的企业,但是一种企业的 第一章

> However, the result was no modification, but an alloy. The author discusses the influence of titanium into the welding tub by electrode-wires and ceramic fluxes. Two series of investigations have been accomplished: 1) The introduction of various quantities of titanium by Sy-0.8 electrodes in welding with AN-348A and AN-20 fluxes; 2) Introduction of titanium by Sv-0.8 electrodes according to GOST 2246-54 of 5 mm diameter, into welding tub with KS-1 ceramic fluxes /Ref 6/. Table 1 and 2 show the chemical structure of seam metal and the presence of fissures. In Photograph 1 the initial structure of the sexus is shown. In Photograph 2 the structure of the seams under influence of ceramic fluxes is shown. Table 3 and 4 represent the results of toughness investigations. According to these, modification may be applied: 1) If the melted metal contains small hard parts which can form the center of crystallization after cooling; 2) If a small quantity of admixture which concentrates at the surface when crystallizing and hinders growing,

Card 2/3

SOV/1.35-59-6-2/20 Features of Modification of Seam Welds by Titanium in the Automatic Welding of Medium Steel

is introduced into the casting, V. I. Danilov /Ref 107 has discussed the admixture for heating metals. V. M. Maltsev /Ref 13/ has been experimenting with the same problem. The author suggests the application of ceramic fluxes containing a modifier for seam-welding with 0.008-0.018% titanium. About 0.5% titanium should be introduced into the weld by electrode-wires. There are 2 photographs, 4 tables, 1 graph and 13 references, 11 of which are Soviet, 1 Japanese and 1 American.

ASSOCIATION: Kiye vskiy politekhnicheskiy institut (Kiyav Politechnical Institute)

Card 3/3

SOV/125-59-10-2/16 18(5), 28(1) Yuzvenko, Yu.A., Candidate of Technical Sciences AUTHOR: Unfused Alloy Fluxes for Automatic and Semi-Automa-TITLE tic Welding Avtomaticheskaya svarka, 1959, Nr 10, pp 9-18 (USSR) PERIODICAL: The article describes the composition and properties ABSTRACT: of unfused alloy (ceramic) fluxes for durable welding, carried out on steels of Type Kh12T, R18, R9 and 3Kh2V8 by means of welding wire Types Sv-08 and Sv-08A, based on work conducted in the laboratory of the faculty of welding at the Kiyev Polytechnic Institute. The con-position of such fluxes can be divided into 3 sections: 1) the scoriaceous part, usually made up of a base of marble, titanium dioxide, quartz and fluoric spar. The marble reduces the amount of hydrogen in the welded metal by the formation of carbon dioxide on heating, and the other component substances are included to reduce the melting point and the viscosity of the slag. Figs 1a and 1b show the initial structure of highchrome welding with the use of high- and low-silicon slag respectively; 2) the deoxidizing part of the flux, usually consisting of ferroalloys and containing acti-Card 1/4

Unfused Alloy Fluxes for Automatic and Semi-Automatic Welding

ve reducing agents (aluminum, titanium, silicon), which is an essential factor in ensuring good welds and the absence of pores. The amount of titanium and aluminum depends on the marble content and the concentration of carbon in the welded steel; 3) the alloying part of the flux, which usually consists of the appropriate ferroalloys and graphite. Table 1 contains data concerning the chemical composition of ceramic fluxes for welding, to which liquid glass (electrode sedium silicate, GOST 4419-48, Class A) is added as a binding agent (17-18% of the total weight of the charge); Table 2 gives the composition of the fluxes, the alloying and reducing parts varying according to the composition of the ferroalloy. The chemical composition of the welded metal is given in Table 3, and then the author goes on to enumerate the purpose of each flux. Figs 2 and 3 give graphs showing the relation between the current: and the arc-voltage and the relative flux consumption (the ralation between the weight of the welding flux and that of the electrode wire), which indicates that

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SOV/125-59-10-2/16

Unfused Alloy Fluxes for Automatic and Semi-Automatic Welding

an increase in the welding current, with the voltage constant, is accompanied by a decline in the relative flux consumption; conversely, an increase in the voltage, with the welding current constant, leads to a stepping-up of the relative flux consumption. The chemical composition of the welded metal can therefore only be obtained at a given relation between voltage and current. Permissible variations in the welding parameters, which do not cause any great change in the chemical composition of the welded steel, are then discussed. Fig 4 gives graphs illustrating the change in the contents of chrome depending on the arc-voltage and the composition of the scoriaceous part of the alloy fluxes, and details and figures are given in Fig 5, which shows that, with welding are given in Fig 5, which shows that, with welding currents of over 450 amps, welding must be carried out with 3mm diameter wire, while currents of up to 350 amps require 2mm wire. Mention is made that the chemical composition of the welded metal is best kept

Card 3/4

Unfused Alloy Fluxes for Automatic and Semi-Automatic Welding

constant by the use of automatic and semi-automatic welders with a constant-speed supply of electrode wire. Figs 6 and 7 indicate that seems welded by coramic fluxes are not as deeply out into the main metal as in the case of fused fluxes. There are 5 graphs, 3 tables, 3 photographs, and 8 Soviet references.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev Order of Lenin Polytechnic Instituts)

SUEMITTED: April 1, 1959

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	TITLE:	Nonferrous Metal Works	
	PERIODICAL:	Artomaticheskaya svarka, 1960, No. 5, pp.	
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All-Union Conference on Problems of Mechanized Plating in Nonferrous

Welding Department in the "Tsvetmet" works in Artemovak, read one on "Experience with Practical Application of Plating for Pressing Tools and Machine Parts". The techniques discussed were: weld-plating under flux with band electrodes; welding pipes by radio-frequency currents; welding by electron ray in a chamber with controlled atmosphere; welding by electroslag remelting. It was stated that, though mechanical plating has made good progress in iron works, it is not yet sufficiently used in nonferrous metal works, for surfacing hot rolling mill rolls, crune wheels, etc., as it is already practiced at 38 metallurgical works in the USSR. Many works do not yet use the process, developed by the Electric Welding Institute for restoring press tools, by fusing powder wire in carbon dioxide medium. The "Tsvetment" works in Artemovak saved over 1 million rubles and 46 tons of tungsten and nickel alloy steel in 1959 by using mechanical plating for parts and pressing tools. Extensive application of electroslag remelting of tool steel, including scrap is becoming important; it reduces carbide nonuniformity of steel and its saturation with gas and contamination with slag inclusions. The conference recommended organizing

Card 2/3

All-Union Conference on Problems of Mechanized Plating in Honferrous

Metal Works

demonstration teams of mechanical plating at a number of nonferrous metal works. Basic directions for research were given. The necessity of new plating materials was noted.

Card 3/3

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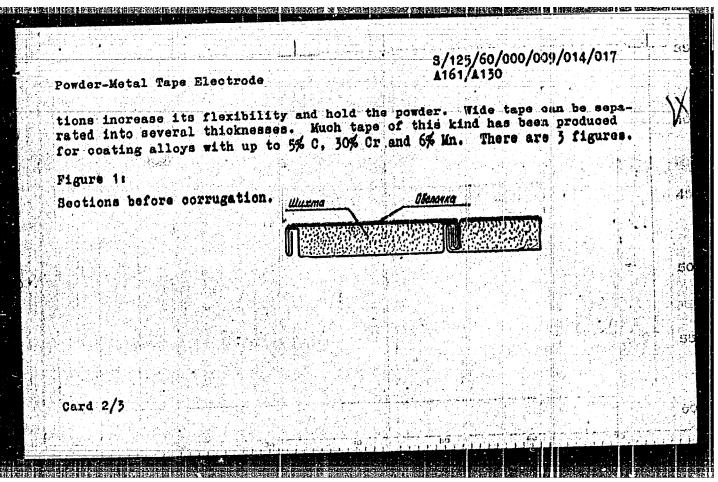
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AUTHOR: Yuzvenko, Yu.A.

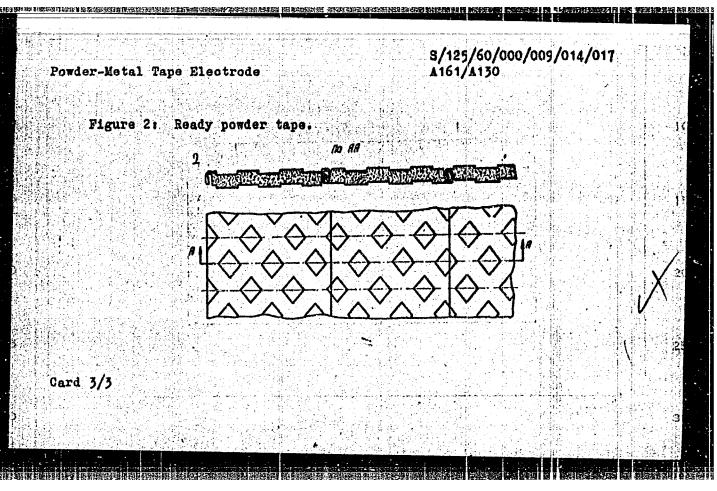
TITLE: Powder-Metal Tape Electrode

PERIODICAL: Avtomaticheskaya svarka, 1960; No. 9, pp. 86-87

TEXT: Institut elektrosvarki im. Ye.O. Patona (Electric Welding Institute im. Ye.O. Paton) has proposed a new method for manufacturing electrode bend for surfacing wear resistant alloys with high carbon content, chrome and other alloy element contents. The electrode consists of a shell from a mild cold-rolled steel band filled with mixed graphite, ferroalloys, and other powdered components. The electrode tape consists of separate 12-14 mm wide sections prepared on a special machine resembling the machine for press-rolling of alkaline storage battery plates (the machine is not further described). Then several sections are passed through corrugating rolls. A drum behind the rolls winds up the tape into coils. The process is continuous and highly productive - one machine produces 3 to 3.5 tons electrode tape per shift. The shell is made of 0.2-0.3 mm steel band, and the corruga-Card 1/3



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Arsen'yavich; MERODENKO, Mikhail Minovich; BCBROVA, T.L., red.;
KOZLOVSKAYA, M.D., tekhm. red.; PERSON, M.N., tekhm. red.

[Principles of the technology of mechanized hard feeing] Osnovy
tekhnologii mekhanizirovannoi naplavki. Moskva, Vses.uchebnopedagog.izd-vo Proftekhizdat, 1961. 303 p. (MIRA 15:1)
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AUTHOR:

Yuzvenko, Yu. A.

TITLE: A confere

A conference of the welders of the Gor'kiy oblast!

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PERIODICAL: Avtomatioheskaya svarka, no. 5, 1961, 95 - 96

TEXT: A conference was convened in Jamary 1961 in Gor'kiy to discuss the problems of further development and application of welding techniques. About 400 delegates were present from the industry of the Gor'kiy oblast', Institut elektrosvarki im. Ye. O. Patona AN USSR (Electric Welding Institute im. Ye. O. Paton AS UKRSR), Institut metallurgii AN 383R (Institute of Metallurgy AS USSR), VNIIAvtogen, and other organizations. B. Ye. Paton, Academician of the AS UKRSSR, reported on the present state and development of welding in the USSR, outlined the expected development for the coming 20 years, and mentioned the progress of plants in the Gor'kiy Economic Rayon (GAZ, "Krasnoye Sormovo" and other) in the application of new techniques and automatic welding lines. T. I. Lapin, Deputy Chairman of Gor'-kiy Sovnarkhoz, reported on the present state of welding techniques and the prospects in the industry of the Sovnarkhoz, and described the success achieved in welding at the Gor'kiy Automobile Plant and the Pavlovo Bus Plant, the "Wigatel'

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A conference of the welders of the Gor'kiy oblast!

revolyutsii" Plant and the "Krasnoye Sormovo" Plant. The Gor'kiy Automobile Plant has started producing welded axles for new trucks from stamped elements, which will considerably reduce the consumption of metal. The "Dvigatel' revolyutsii" Plant is replacing castings by welded structures, e.g. the base frame for a Diesel engine is produced by welding rolled and cast components, and the weight is reduced by 1,400 kg (from 3,300 kg). The total volume of welding increased by 38% during two years. B. I. Medovar, Candidate of Technical Sciences (Electric Welding Institute im. Ye. O. Paton) informed on new work on machine welding and electro-slag; remelting, new welding wire and flux grades for refractory steels and alloys, electroslag welding of large ring elements, new techniques for welding bimetal sheets, and a new method of producing multilayer rolled stock from welded and hard-faced billets. S. I. Rusakov, Assistant Chief Production Engineer of the Gor'kly Automobile Plant reported on the "Application and Prospective Development of Welding at the Gor'kiy Automobile Plant". The plant produces 236,000 welded structures anmually, and welding is mechanized to 94.5%. An assembly and welding line for the floor of "Volga" automobile body includes three automatic multispot resistance welding machines welding 200 - 240 spots each; CO2-welding with semiautomatic A-547-P (A-547-R) welders has improved the quality of work, reduced warpage, doubled and trebled the productivity. A new rear axle design is used for new trucks

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A conference of the welders of the (lor'kiy oblast'

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consisting of stampings welded together; the Electric Welding Institute has developed the technology. Tubeless tyres can be used for pastenger cars due to a new method of joining the wheel discs to the rim - by spot welding. Overall automation and mechanization has resulted in a 1.5 times higher output. Engineer O. K. Nazarenko told in his report on "Electron-Beam Welding and its Prospective Development" what the Electric Welding Institute im. Ye. O. Paton is doing in this field, and on industrial electron-beam welding guns developed by the Institute. V. F. Ryabinkin, Assistant Chief Production Engineer of "Krasnoye Sormovo" described the welding work at the plant including hydrofoil ships, tankers, sea, and RR ferry boats; ship elements produced by welding of stampings and castings. The plant has started using electro-slag welding for steel gructures and argon-are welding for sluminum alloys. A welded hydrofoil Diesel ship for 300 passengers is under construction. The use of TC-32 (TS-32) welders and single-pags welding with forced forming of the rear side of welds had raised the plant productivity by a factor of 1.5 - 1.7. The mechanical hard-facing of rolls has reduced the roll consumption by 50%. The plant has remote-controlled ΜΔΦΚC(MDFKS) gas cutting automatics. Yu. A. Yuzvenko, Candidate of Technical Sciences, reported on a high-productive hard-racing method developed at the Electric Welding Institute im. Ye. O. Paton, with the use of band electrodes, and on a method of producing wear-resistant bimetals consisting in rol-

Card 3/5

5/123/61/000/005/016/016 A161/A127

A conference of the welders of the Gor'kiy oblast'

ling billets preliminarily coated or welded by the electro-slag method. Engineer N. K. Makarov spoke on the use of electric welding and hard-facing for the facilities of the Gor'kiy railroad. Rails are being welded into 25 m lengths and more with a PPCKM (RRSKM) resistance welding machine. Worn rail emis are being hard-faced. V. A. Petrunichev, Candidate of Technical Sciences, of Institut metallurgii AN SSSR (Institute of Metallurgy AS USSR) spoke of the high effect of plasma are in his report on "Cutting and Welding Metals by Plasma Aro". N. F. Kazakov, Candidate of Technical Sciences, reported on "Diffusion Vacuum Welding of Matals and Alloys" and mentioned high mechanical strength of welds produced in bimetallic elements and alloys. He described the CABY-1 (SINU-1) and CABY-2 (SDVU-2) units for welding tips of high-speed steel, carbides and caramets to tool shanks. The following reports have been also heard: V. A. Muznetsov, of Institut metallurgii AN SSSR (Institute of Metallurgy AS USSR) - "Ultrasonio welding"; Engineer V. A. Kolchanov -"Advanced Welding Methods at the 'Teplokhod' Plant"; Engineer V. N. Gurashov (PTMII) - "Physical Inspection Methods for Welded Joints; Engineer V. V. Yevseyev - "Development of Welding at the Crushing Equipment Plant"; Engineer I. Ye. Yermakov - "Welding at a Shipbuilding Plant" Engineer I. F. Terekhov of Kulebakskiy metallurgicheskiy zavod (Kulebaki Metallurgical Plant) - "Hard-Facing of Holling

Card 4/5

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A conference of the welders of the Gor'kiy oblast'

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Mill Rolls"; Engineer A. N. Tigashin, of the "Dvigatel' revolyutsii" Plant, "Introducing Automatic Welding"; Engineer A. A. Fedotov, of "Dvigatel' revolyutsii"
Plant - "Hard-facing of Cutting Teels"; Engineer A. I. Maykopar, of "Printekhmontarh" Trust no. 8, - "The Use and Prospective Development of Welding at the No. 8
Trust". Welding films were demonstrated and an exhibition was organized, Consultation was given. Ways for a further propagation of welding were indicated in the Conference decisions. [Abstracter's note; Essentially complete translation]

Card 5/5

24782 8/12/5/61/000/00/00/010/014 DO40/D113 1.2300 Yuzvenko, Yu.A., and Kirilyuk, G.A. AUTHORS: Mechanized open arc surfacing Avtomaticheskaya svarka, no. 8, 1961, 83 TITLE: TEXT: When surfacing in shielding gases, difficulties are encountered in protecting the gas nozzle from drops of the liquid electrode metal. In this connection, a delay in the surfacing process for the cleaning of the nozzle is highly undesirable. Consequently, investigations were conducted at the Institut elektrosvarki im. Ye.O. Patona (Electric Welding Institute im. Ye.O. Paton) on the composition of a powder wire for the open arc surfacing of alloyed metal without a flux or shielding gas. The chemical composition of the metal deposited by the powder wire was as follows: 0.50-0.55%C, 4.0-5.5% Cr, 3.0-4.5% W, 0.3-0.6% V, 0.5-1.0% Mn, 0.15% Ti, 0.5% Si, and 0.4% S. Surfacing is conducted using d.c. with reversed polarity. Good formation and sound coating metal is obtained using the following system: 200-500 amp, 23-26 v welding current and 15-50 m/hr wire feed. The wire composition includes alloys, slag and gas-shielding components, and elements Card 1/2

Mechanized open arc surfacing

which combine nitrogen with stable nitrides. [Abstracter's note: The elements are not specified]. This powder wire may be used for surfacing machine parts which operate at increased temperatures (notling mill steel rolls with complex and deep grooves, pressure bearings for hydraulic presses, etc.) A method has been developed for calculating the powder wire composition for surfacing 3 × 2 B 8 (3 kh 2 v 8) steel, sormite No. 2, high-speed steel and other alloys containing up to 30% alloy elements. Abstracter's note: Essentially complete translation].

Card 2/2

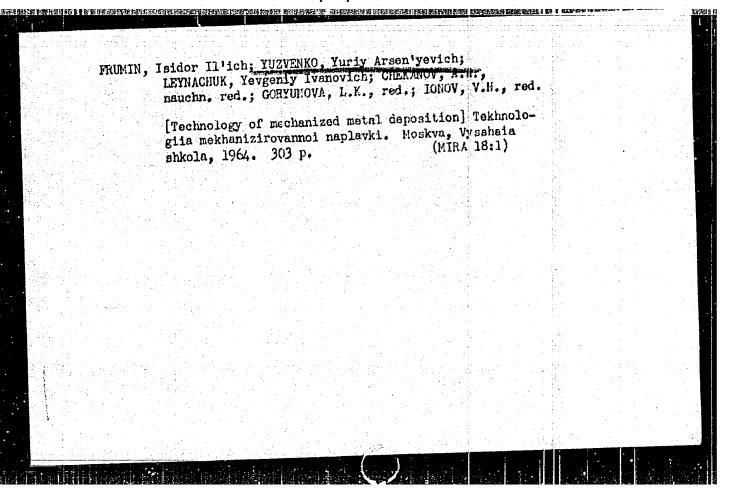
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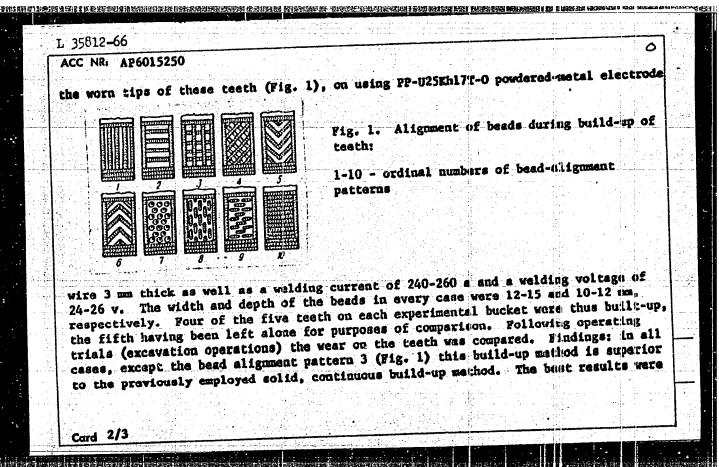
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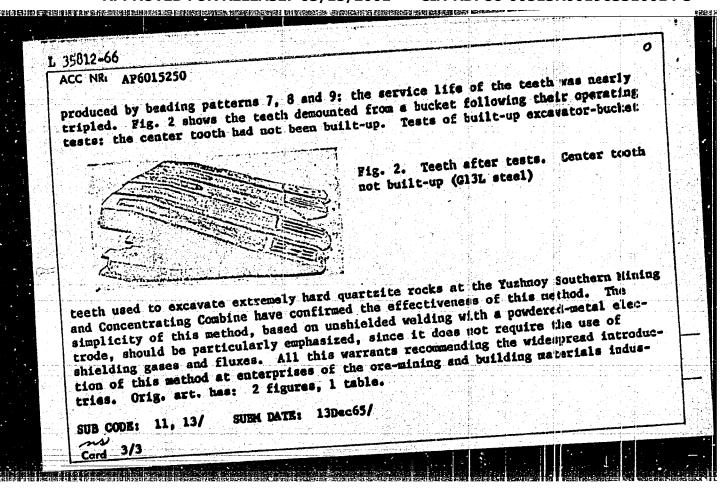


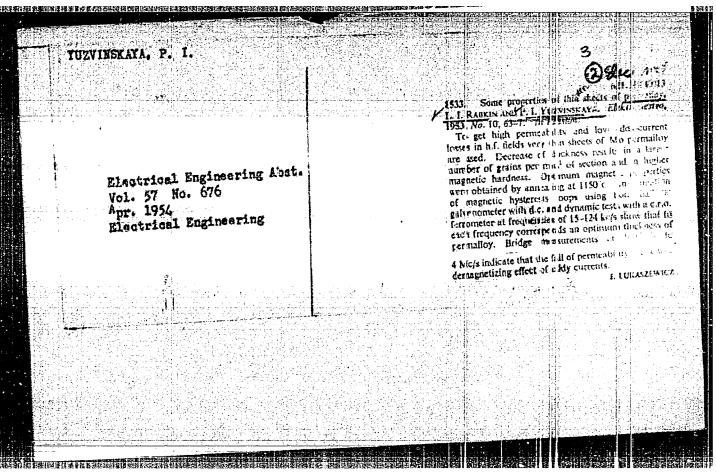
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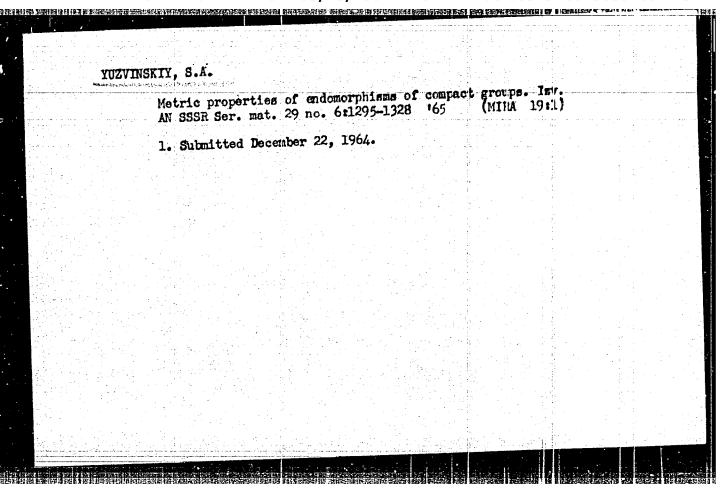
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	ACC NR. AP6015250 (A) SOURCE CODE: UK, AUTHOR: Yuzvenko, Yu. A., Shimanovskiy, V. P., Kel'nik, A. V., Dmitriyav, V. G. B ORG: [Yuzvenko, Shimanovskiy, Kel'nik] Institute of Electric Welding in. Ye. C. ORG: [Yuzvenko, Shimanovskiy, Kel'nik] Institute of Electric Welding in. Ye. C. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR); [Dmitriyev] Combine for the Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR); [Anomaly (Kombinat po	
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de es .	TITLE: Prolonging the service life of the teeth of excavator states of the teeth of excavator state	
	SOURCE: Avtomaticheskaya svarka, no 5, 1966, pp 68-09	
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	EKG-4 excavating machinery ABSTRACT: The service life of bucket teeth of G13L steel ranges from 3 to 20 days ABSTRACT: The service life of bucket teeth of G13L steel ranges from 3 to 20 days depending on operating conditions and the hardness of the rock being excavators. depending on operating conditions and the hardness of the buckets of EKG-3 accavators. These teeth weigh ~120 kg each, and are mounted on the buckets of the beading of In this connection, the authors experimented with various patterns of the beading of	
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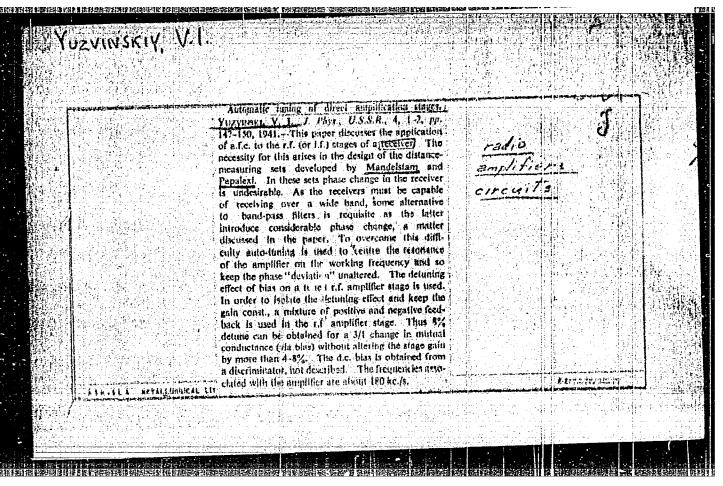






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Yuzvinskiy, V.I.

Noise figure of the receiver with a single-tuned

prametric amplifier at the input TITLE:

Izvestiya vysshikh uchebnykh zavodeniy, Radiofizika, v. 5, no. 2, 1962, 319 - 327 PERIODICAL:

A receiver preceded by a HF parametric amplifier operating synchronously, or in the two-channel regime, is analyzed, the following two cases being considered: a) the signal generator and the load are connected to the amplifier via an ideal ferrite circulator; b). the generator and the load are connected separately through two ferrite isolators or without them. The equivalent circuit of the singletuned parametric amplifier is represented in Fig. 1, where the load and the signal-generator are connected through ideal transformers. The noise figure of the receiver with such an amplifier is expressed by (I.Sie and S. Weisbaum, IRE Nat.Conv. Rec., 3, 141, 1959):

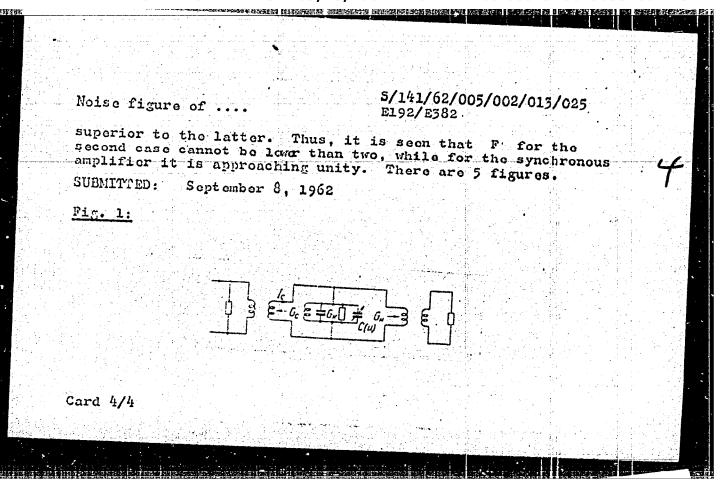
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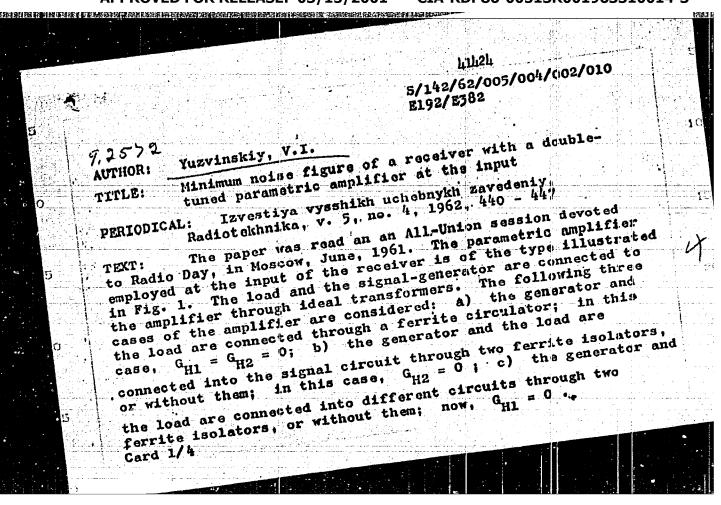
5/141/62/005/002/013/025 E192/E382 Noise figure of $F = F_1 + \frac{F_2 - 1 - t_H}{\kappa^2}$ (2)where F is the noise figure of the amplifier, K2 is the power amplification of the system, F2 is the noise figure of the receiver without the t is the relative electrical temperature of the amplifier load. It is shown that in the case of the synchronously operating amplifier the noise figure is expressed by: $F = 1 + t_K x + t_H y + n(1 + x + y)^2/y$ (12) $x = G_{K}/G_{c}$, $y = G_{H}/G_{c}$ where: Card 2/4

5/141/62/005/002/013/025 Noise figure of and $n = (F_2 - 1 - t_H)(1 - \alpha)^2/4(1 + \alpha)$ where a is defined by: $\alpha = (\omega c_1/2G)^2$ G is the conductance of the tuned circuit, G is the conductance of the generator and load (when separated by the circulator) and $G = G_K + G_c + G_H$ (G_H being the conductance

of the load). It is found that the noise figure has a minimum value F_{m} which is dependenct on n, t_{H} and t_{K} . In the case of the two-channel operation of the amplifier, the signal frequency ω_1 is not equal to half the pump frequency ω_2 . Again, an expression for the noise figure is derived and the results are illustrated in two graphs. Comparison of the minimum noise figures for the synchronous and two-channel operation of the amplifier shows that the former is vastly

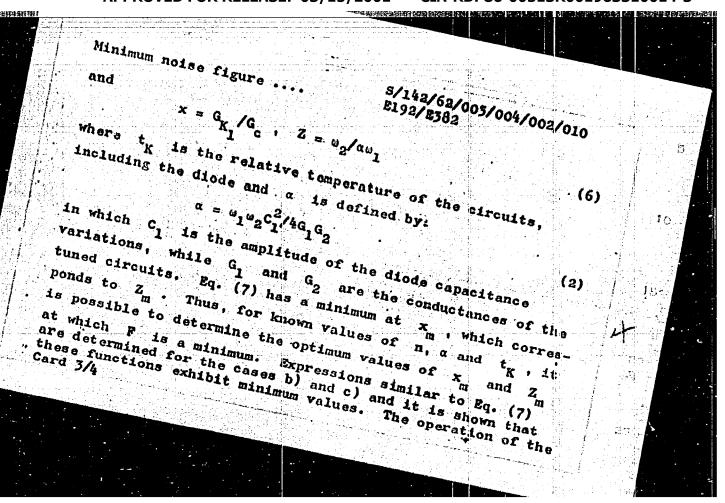
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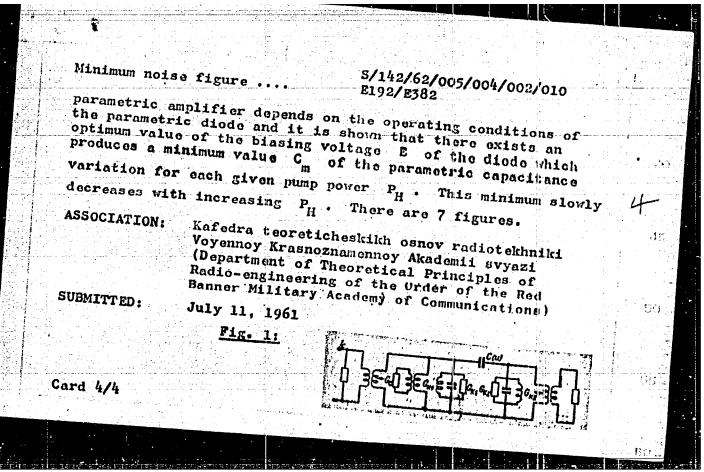




Card 2/4

5/142/62/005/004/002/010 E192/E382 Minimum noise figure. The problem consists of choosing the parameters of the amplifier so that the noise figure of the receiver defined by: (3) is a minimum. In Eq. (3) F₁ is the noise figure of the parametric amplifier, including the noise of its load, the gain of the amplifier at the resonant frequency, F2 is the noise figure of the receiver without the amplifier and th is the relative electrical temperature of the input of the receiver. For the case a), the noise figure of the system is $F = 1 + \frac{4}{[1+\alpha-(1-\alpha)x]^2} [t_k x + t_k \frac{(1+x)}{Z} + n(1+x)^2]$ (7) expressed by: where: n. 4 (F2-1-t4)(1-0)2 (8)





TITLE: Semidry Method for the Manufacture of Chamotte Products From Clay
Types of the Troitsko-Baynovskaya Deposit

PERIODICAL: Ogneupory, 1960, No. 4, pp. 153-157

TEXT: In the paper under review the authors describe the introduction of the semidry pressing method at the Bogdanovichskiy ogneupornyy zavod (Bogdanovich Works for Refractories) which was started there in 1958. The production scheme of the Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractories) (Fig. 1) had to be altered in the course of the erection of the plant and its starting up. The clay types of the Troitsko-Baynovskaya deposit show an inconstancy of their physico-chemical quality indices (Table 1). Insert bricks for checker chambers with a porosity of 22% and ladle bricks with a porosity of 21% should be manufactured from these clay types according to the semidry method. The composition of the charges can be seen from table 2. No dense products, however, could be obtained when using these charges. The firing temperatures had

Card 1/2

Semidry Method for the Manufacture of Chamotte

Products From Clay Types of the Troitsko-Baynovskaya

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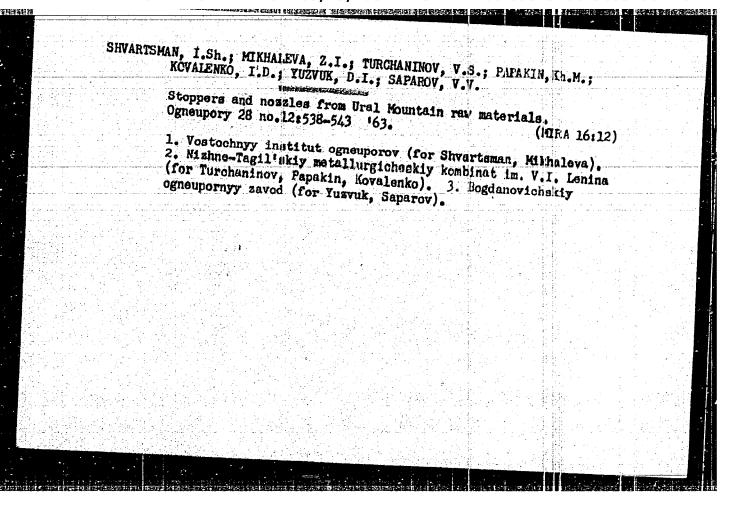
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to be increased and the inserting of the briquettes into the kiln had to be altered upon a proposal by I.M. Novikov (Fig. 2). Since the required porosity of the products, however, could not be warranted in this way, firing was carried out in an annular kiln, the inserting being done in accordance with the scheme in Fig. 3. The authors state that the manufacturing technique of latile- and insert bricks must be perfected still further for the purpose of increasing their density. There are 5 figures and 2 tables.

ASSOCIATION: Bogdanovichskiy ogneupornyy zavod (Bogdanovich Works for Refractories)

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ACC NR. AP6021570 (A) BOURCE CODE: UIV0131/66/010/003/0006/0108

AUTHOR: Yuzvuk, D. I.; Saparov, V. V.; Khomutinina, A. D.; Klyuyev, V. M.

ORG: Bogdanovich Refractories Plant (Bogdanovichskiy ognenpornyy zavod)

TITLE: Device for prolonged measurement of the temperature of molten stael

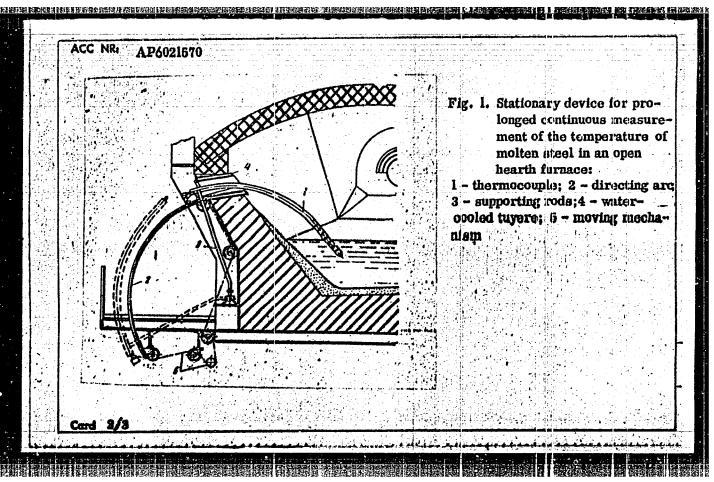
SOURCE: Ogneupory, no. 3, 1966, 5-8

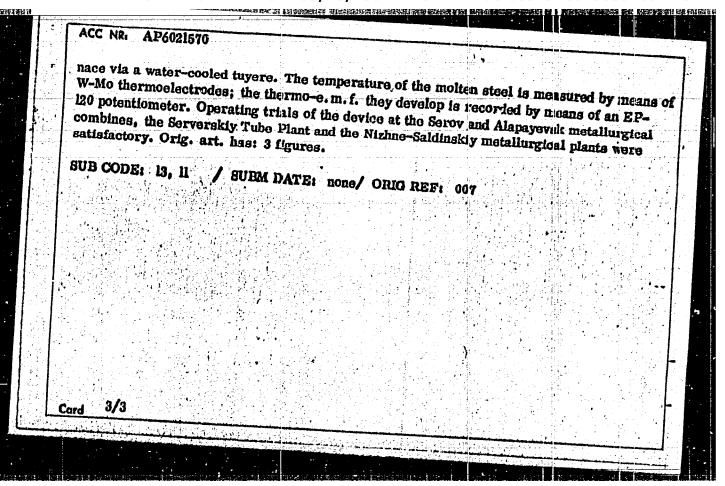
metallurgic research intermediate instrument, metallurgic research intermediate instrument, metallurgic research intermediate instrument.

ABSTRACT: On the basis of blueprints drafted at the Bogdanovich Refractories Plant a device for prolonged continuous measurement of the temperature of molten steel in the hearth furnace has been constructed (Fig. 1) on using a water-cooled immersion thermocouple tipped with a specially prepared mixture of ZrO_2 and SiC which does not interact with molten steel at high temperatures and sheathed in protective refractory liners. The ZrO_2 - SiC tip and refractory liners assure normal performance of the thermocouple for 2-3 hr. The device also includes a holder, a bushing, and a steel tube protecting the thermocouple against impact on immersion in the molten bath. The thermocouple is inserted into the open-hearth fur-

Card 1/3

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Polikarpov, V. I., V. S. Filonov, O. V. Chubakova, and N. N. Yuzvuk.

Kontrol' germetichnosti teplovydelyayushchikh elementov (Monitoring the Hermiticity of Fuel Elements). Moscow, Gosafomizdat, 1962. 186 p. Errata slip insemted. 2500 copies printed.

Ed.: Ye. I. Panasenkova; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This book is intended for engineers and technicians specializing in the design and operation of reactors and of systems for monitoring the hermeticity of fuel-element jackets.

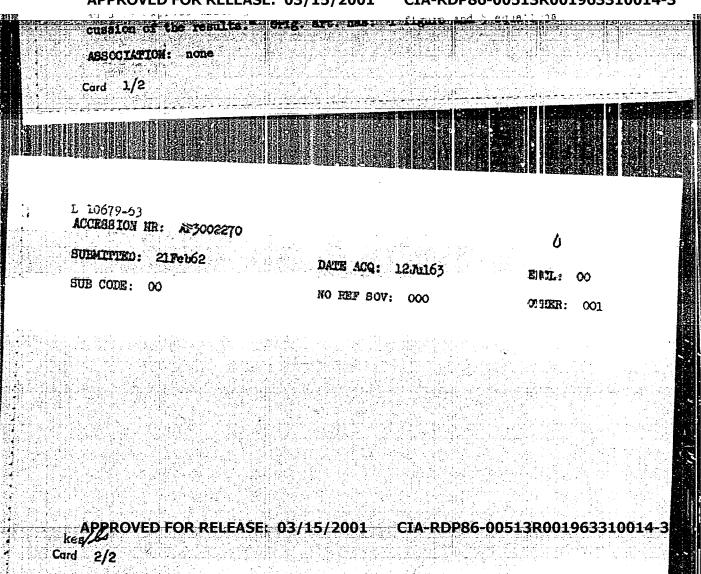
COVERAGE: The principles of designing systems for monitoring the hermeticity of fuel-element jackets are presented. Particular attention is given to the physical and chemical phenomena affecting system sensitivity and efficiency.

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Monit	oring the Hermeticity (Cont.)	
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T aı l3 ar	he existing or projected non-Soviet systems are surveyed. Indicated reference data for the designer's use are included, Indicated references: 90 Soviet (including 25 translations), 42 English German.	Formulas There are lish, 2 French,
TABL	OF CONTENTS [Abridged]:	
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2.	Causes of hermeticity failure in fuel-element jackets	5
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4.	from a damaged fuel element	10
5.	Concentration of fission-fragment	12
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RCCESSION NR; AP3007063

AUTHORS: Zherebin, Ye. A.; Krylov, A. I.; Polikarpov, V. I.; Yuzvuk, N. N.

FITLE: Investigation of the gamma radiation from Cs-140

SOURCE; Zh. eksper. 1 teoret. fiziki, v. 45, nc. 3, 1963, 464-468

TOPIC TAGS: Cs-140, gamma radiation, short-lived fragment, spectral line

ABSTRACT: A method for investigating the gamma rays from the short-lived (half-life 66 sec) fragment Cs¹⁴⁰ is described, along with the conrich the mixture of the decay product with the investigated fragment product. The Cs¹⁴⁰ was investigated by a high-speed chemical separation of the cesium. The lines 0.59 ± 0.01, 0.88, 1.14, 1.62, 1.85, 2.06, 2.32, 2.72, 3.15 MeV were observed as a result in Card 1/82

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